| Index of Claims   | Application No. | Applicant(s) |
|---|-----------------|--------------|
| 188181   1881   88111   88111   18818   STATE STATE   1881   1881 | 10/076,625      | SAKAI ET A   |
|   | Examiner        | Art Unit     |
|   | John M Ross     | 2188         |
|   |                 |              |

| 4 | Rejected | , | _ | (Through numeral)<br>Cancelled |   | 1 | Non-Elected  | Α | Appeal   |
|---|----------|---|---|--------------------------------|---|---|--------------|---|----------|
| = | Allowed  |   | + | Restricted                     | Ī |   | Interference | 0 | Objected |

| Cl           | aim      | Date   |  |          |              |              |              |  |  | :::::    | CI     | aim.     | Date     |               |                |          |          |          |          |          |          |          | Cla      | im       | Date       |          |          |          |          |          |          |               |          |          |
|--------------|----------|--|--|----------|--------------|--------------|--------------|--|--|----------|--------|----------|----------|---------------|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|----------|----------|----------|----------|----------|----------|---------------|----------|----------|
| C            |          | $\vdash$   |  |          |              | Jau          |              | Γ  |  | $\vdash$ |        |          |          |               |                |          |          |          |          | - :::    | H        | <u> </u> |          |          |            | Т        | - 뉴      | T        |          | $\neg$   | $\neg$   | ᅱ             |          |          |
| Final        | Original | 2/24/05  |  |          |              |              |              |  |  |          |        | Final    | Original |               |                |          |          |          |          |          |          |          | i<br>c   | 3        | Original   |          |          |          |          |          |          |               |          |          |
| -            | 1        | V  |  | -        | -            | -            | -            | <del> </del>                                     | $\vdash$   | H        |        |          | 51       |               | -              | +        | +        | +        | +        | ╅        | 十        |          | <u> </u> | +        | 101        | ᅥ        | $\dashv$ | +        | ᅥ        | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$ | ᅥ        |
|              | 2        | Ť  |  |          |              |              |              |  |  |          |        |          | 52       | Н             | $\dashv$       | $\dashv$ | -+       | $\dashv$ | $\dashv$ | +        | ╁        | -{::     | ┢        | $\dashv$ | 102        | $\dashv$ | $\dashv$ | ┪        | ᅱ        | -+       |          | $\dashv$      | $\dashv$ | ᅥ        |
| $\vdash$     | 3        | 1  | H  | -        |              | $\vdash$     | $\vdash$     | -  | -  | Н        |        |          | 53       | Н             | $\dashv$       | $\dashv$ | $\dashv$ | 十        | $\dashv$ | $\dashv$ | $\dashv$ | -        | <u> </u> | +        | 103        | ᅥ        | $\dashv$ | -        | -        | 7        | +        | +             | $\dashv$ | ᅥ        |
|              | 4        | <u> </u>   |  |          |              |              |              |  |  |          |        |          | 54       | Н             | $\dashv$       | $\dashv$ | $\dashv$ | $\dashv$ | +        | $\dashv$ | +        | -        | $\vdash$ |          | 104        | -        | $\dashv$ | 7        | -        | -        | $\dashv$ | $\dashv$      | $\dashv$ | ᅥ        |
| -            | 5        | 1  | П  |          |              | $\vdash$     | $\vdash$     | -  | -  | -        |        | -        | 55       | H             | $\dashv$       | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +        | -        | $\vdash$ |          | 105        | -        |          | +        | -1       | ᅱ        | ᆉ        | 十             | 十        | ㅓ        |
| <b>`</b>     | -6-      | Ė  |  | _        |              |              |              |  |  |          |        |          | 56       | H             | $\dashv$       | $\dashv$ | +        | $\dashv$ | +        | +        | +        | -        | ⊢        |          | 106        | -        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$ | ᅥ        |
|              | 7        | 7  |  |          | -            | -            |              |  | F  |          |        |          | 57       | $\vdash$      | $\dashv$       | $\dashv$ | $\dashv$ | +        | -+       | ┰        | +        | $\dashv$ | $\vdash$ | $\dashv$ | 107        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -        | $\dashv$      | +        | ᅱ        |
|              | -8-      | Ė  |  |          | _            |              |              |  |  |          |        |          | 58       |               | $\dashv$       | $\dashv$ | _        | -+       | +        | +        | $\dashv$ |          | ⊢        | +        | 108        | $\dashv$ | $\dashv$ | +        | +        | -        | $\dashv$ | $\dashv$      | ╗        | ᅥ        |
| $\vdash$     | 9        | 1  | Н  |          |              |              |              | -  | _  |          |        |          | 59       |               |                | -+       | +        | -        | ┪        | +        | ╅        | -        | $\vdash$ | $\dashv$ | 109        |          | -        | ┪        | $\dashv$ |          | +        | $\dashv$      | $\dashv$ | ᅥ        |
|              | 10       | Ť  |  |          |              |              |              |  |  |          | •      |          | 60       | _             | $\dashv$       | ╛        | $\dashv$ | +        | -+       | +        | +        | -        | $\vdash$ | $\dashv$ | 110        |          |          | $\dashv$ | $\dashv$ | -        | +        | +             | $\dashv$ | $\dashv$ |
|              | 11       | 1  |  |          |              | -            | $\vdash$     | F  | ⊢  | H        |        |          | 61       | -             |                | -+       | -        | $\dashv$ | $\dashv$ | $\dashv$ | +        | -        | $\vdash$ | +        | 111        | $\dashv$ | $\dashv$ | ┪        | $\dashv$ | $\dashv$ | -        | +             | $\dashv$ | $\dashv$ |
|              | 12       | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \            |  |          |              |              |              |  | $\vdash$   |          |        |          | 62       | $\vdash$      | $\vdash$       | $\dashv$ | $\dashv$ | $\dashv$ | +        | $\dashv$ | +        |          | $\vdash$ | $\dashv$ | 112        | $\dashv$ | +        | +        | $\dashv$ | $\dashv$ | -        | $\dashv$      | $\dashv$ | $\dashv$ |
|              | 13       |  |  |          |              | E            |              |  | $\sqsubseteq$                                    |          |        |          | 63       | $\vdash$      | $\vdash$       | $\dashv$ | $\dashv$ | -        | +        | $\dashv$ | $\dashv$ |          | $\vdash$ | +        | 113        | $\dashv$ |          | +        | $\dashv$ | $\dashv$ | +        | ᆉ             | 一        | ᅱ        |
|              | 14       |  | E  |          |              |              |              |  |  |          |        |          | 64       | $\vdash$      | H              |          | -+       | -+       | $\dashv$ | $\dashv$ | $\dashv$ |          | -        |          | 114        | $\dashv$ | $\dashv$ | +        | $\dashv$ | $\dashv$ | -+       | $\dashv$      | $\dashv$ | $\dashv$ |
|              | 15       |  | Ш  | =-       |              |              |              |  | Е  |          |        |          | 65       |               | $\vdash$       | $\dashv$ | $\dashv$ | $\dashv$ | _        | $\dashv$ | +        | -        | $\vdash$ | $\dashv$ | 115        | $\dashv$ | $\dashv$ | $\dashv$ | ┪        | -        | -        | $\dashv$      | $\dashv$ | ᅱ        |
|              | 16       |  |  |          |              |              |              |  |  |          |        |          | 66       | $\vdash$      | -              | $\dashv$ | -        | -+       | $\dashv$ | $\dashv$ | +        | -        | $\vdash$ | $\dashv$ | 116        |          | $\dashv$ | -+       | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$ | ᅱ        |
|              | 17       | <b>V</b>   |  |          |              |              | -            |  | F  | F        |        |          | 67       | -             | $\vdash$       | $\dashv$ | ᆉ        | $\dashv$ | +        | $\dashv$ | +        | -        | -        | 十        | 117        | -        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -        | $\dashv$      | $\dashv$ | ㅓ        |
| $\vdash$     | 10       | Ľ  |  |          | _            |              |              |  |  |          |        |          | 68       | -             | Н              | -        | +        | $\dashv$ | $\dashv$ | $\dashv$ | +        | -        | -        | -+       | 118        | -        | +        | $\dashv$ | $\dashv$ | -        | -+       | $\dashv$      | $\dashv$ | ㅓ        |
|              | 19       | 1  |  |          |              |              |              | H  | H  |          |        |          | 69       | -             | Н              | -        | -        | -        | +        | -+       | -+       | -        | $\vdash$ | $\dashv$ | 119        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -        | $\dashv$ | $\dashv$      | $\dashv$ | $\dashv$ |
| <u> </u>     | 20       | <del>                                     </del> | -  |          |              |              | $\vdash$     | _  |  |          |        |          | 70       | -             | Н              | $\dashv$ | $\dashv$ | ᆉ        | -        | $\dashv$ | ┰        | -        | $\vdash$ | +        | 120        | $\dashv$ | _        | -        | $\dashv$ | $\dashv$ | $\dashv$ | +             | ᆉ        |          |
| -            | 21       | -  | $\vdash$   |          |              | $\vdash$     | $\vdash$     | -  | -  |          |        |          | 71       |               |                | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$ | -+       | -        | $\vdash$ | +        | 121        | $\dashv$ | -+       | ┪        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      | -        | $\dashv$ |
|              | 22       | -  | -  |          |              | $\vdash$     | ┢            | $\vdash$   | ┝  |          |        |          | 72       | $\vdash$      | Н              | $\dashv$ | -        | -        | $\dashv$ | +        | -+       | $\dashv$ | $\vdash$ | -+       | 122        |          |          | ┥        | -        | -        | ᆉ        | -             | +        | ᅱ        |
|              |          | ⊢  |  |          |              | $\vdash$     | -            |  | H  | $\vdash$ |        |          | 73       | $\vdash$      | Н              | -        | -        | $\dashv$ | -        | -        | -        |          | $\vdash$ | -        | 123        |          | +        | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$      | -+       | $\dashv$ |
| -            | 23       | ⊢  | H  |          |              | -            | -            | -  | <del> </del>                                     |          |        |          | 74       | $\vdash$      | Н              | -        | $\dashv$ | ┥        | -        | -+       | +        | - :::    | -        | +        | 124        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -        | -        | +             |          | ᅱ        |
| -            | 24<br>25 | ⊢  | H  |          |              | -            | -            |  | -  | -        |        | _        | 75       |               | Н              | +        | -        |          | $\dashv$ | $\dashv$ | +        | -        | $\vdash$ | +        | 125        | $\dashv$ | +        | $\dashv$ |          | -        | $\dashv$ | $\dashv$      | $\dashv$ | $\dashv$ |
|              |          | -  | -  | _        | _            | ├            | -            | <del> </del>                                     | -  |          |        |          | 76       | -             |                | -        |          | -        | $\dashv$ | $\dashv$ |          |          | $\vdash$ | -        | 126        |          |          | +        |          | -        | ┪        | +             | $\dashv$ | $\dashv$ |
| -            | 26<br>27 | -  |  |          | -            | $\vdash$     | -            | H  | -  | _        |        |          | 77       | -             | $\vdash$       | $\dashv$ | -        | $\dashv$ | 127        | $\dashv$ | $\dashv$ | $\dashv$ |          |          | -        | $\dashv$      | $\dashv$ | ㅓ        |
|              |          | ⊢  | $\vdash$   |          |              | $\vdash$     |              | -  | ┢  |          |        |          | 78       | H             | Н              | $\dashv$ | $\dashv$ | -        | -+       | $\dashv$ | ╅        |          | $\vdash$ | $\dashv$ | 128        | -        |          | ┪        |          | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$ | ᅱ        |
|              | 28       | ⊢  | ⊢  | _        | _            | ⊢            | -            | -  |  | <u> </u> |        |          | 79       | H             | Н              | $\dashv$ |          | -        | $\dashv$ | -+       | +        | -        | $\vdash$ | $\dashv$ | 129        | -        | +        | $\dashv$ | -        | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$ | ᅱ        |
|              | 30       | -  |  |          |              | ├            | -            | ├  |  | -        |        |          | 80       | -             | Н              | $\dashv$ | ┥        | -+       | +        | $\dashv$ | $\dashv$ | -        | $\vdash$ | $\dashv$ | 130        |          | +        | +        | $\dashv$ | $\dashv$ | -        | -             | $\dashv$ | $\dashv$ |
| -            |          | <del> </del>                                     | ┝  | _        |              | -            | -            | ┢  | <del>                                     </del> | H        |        |          | 81       | $\vdash$      | $\vdash$       | -        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |          | -        | +        | 131        | -        |          | +        | -        | -        | -        | -             | $\dashv$ | ᅱ        |
| -            | 31       | -  | $\vdash$   | _        | _            | -            | ├            | ├  | ├  | -        |        |          | 82       | -             | Н              | $\dashv$ | $\dashv$ | $\dashv$ | +        | +        | -        | $\dashv$ | -        | $\dashv$ | 132        | -        | -        | +        | ┥        |          | $\dashv$ | $\dashv$      | $\dashv$ | ᅱ        |
| <u> </u>     | 32       | $\vdash$   | $\vdash$   | $\vdash$ | _            | ┝            | ├            | ⊢  |  | _        |        |          | 83       | Н             | Н              | $\dashv$ | -        |          | $\dashv$ | ┽        | -        | -        | $\vdash$ | -        | 133        |          | +        | +        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$ | ᅱ        |
| <u> </u>     | 33       | -  |  |          |              | ├            | $\vdash$     | <del>                                     </del> | ├-   | $\vdash$ |        | -        | 84       | -             | Н              | -        | $\dashv$ | $\dashv$ | $\dashv$ | -+       | +        | - :::    | $\vdash$ | $\dashv$ | 134        | -        | +        | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$      | $\dashv$ | $\dashv$ |
| <del> </del> | 35       | $\vdash$   | -  |          |              | $\vdash$     | $\vdash$     | $\vdash$   | $\vdash$   | $\vdash$ |        |          | 85       | -             |                | -        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -{:::    | -        | $\dashv$ | 135        | $\dashv$ | $\dashv$ | $\dashv$ |          |          | -        | $\dashv$      | $\dashv$ | ᅱ        |
| -            | 36       | $\vdash$   | $\vdash$   | H        | _            | ⊢            | ⊢            | -  | -  | -        |        |          | 86       | H             | Н              |          | $\dashv$ | {        | +        | $\dashv$ | +        |          | -        | $\dashv$ | 136        | $\dashv$ |          | $\dashv$ |          | ᅱ        | $\dashv$ | $\dashv$      | $\dashv$ | $\dashv$ |
| <u> </u>     | 37       | ├  | $\vdash$   |          |              | ┝            | ⊢            | ├─   |  |          |        |          | 87       | -             | $\vdash$       | -        | $\dashv$ | $\dashv$ | -+       | +        | -+       |          | $\vdash$ | ᆉ        | 137        | -        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | ᅱ        | $\dashv$      | $\dashv$ | ⊣        |
| -            | 38       | <del>                                     </del> | $\vdash$   | $\vdash$ | $\vdash$     | $\vdash$     | $\vdash$     | $\vdash$   | $\vdash$   | $\vdash$ |        |          | 88       | -             | Н              | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -+       | $\dashv$ |          | -        | $\dashv$ | 138        |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$ | $\dashv$ |
| <b>—</b>     | 39       | $\vdash$   | $\vdash$   | H        | -            | -            | -            | <del> </del>                                     | <del> </del>                                     | $\vdash$ |        |          | 89       | $\vdash$      | -              | -        | -        | $\dashv$ | $\dashv$ | +        | $\dashv$ | -        | $\vdash$ | +        | 139        | $\vdash$ |          | +        | $\dashv$ | ᅱ        | $\dashv$ | <del>- </del> | $\dashv$ | ᅱ        |
| -            | 40       | <del>  -</del>                                   | -  |          | -            |              | -            | ┢  | $\vdash$   | -        |        |          | 90       | -             | $\vdash$       |          | -        | $\dashv$ | $\dashv$ | $\dashv$ | +        |          | $\vdash$ | +        | 140        | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -+       | $\dashv$      | $\dashv$ | $\dashv$ |
| -            | 41       | $\vdash$   | $\vdash$   | $\vdash$ |              | $\vdash$     | $\vdash$     | -  |  |          |        |          | 91       | $\vdash$      | $\vdash$       | -        | $\dashv$ |          | $\dashv$ | -        | $\dashv$ |          | -        | $\dashv$ | 141        | $\vdash$ | +        | ┥        |          | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$ | ᅱ        |
| <b>—</b>     | 41       | $\vdash$   |  |          | <u> </u>     | -            | <del> </del> | ├—   | -  | $\vdash$ |        |          | 92       | <del> -</del> | $\vdash\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +        |          | $\vdash$ | $\dashv$ | 142        | $\vdash$ | +        | $\dashv$ | $\dashv$ |          | $\dashv$ | $\dashv$      | $\dashv$ | $\dashv$ |
| <b>—</b>     | 42       | $\vdash$   | <del> </del>                                     | H        | <u> </u>     | ├—           | $\vdash$     | ├  | -  |          |        | <u> </u> | 93       |               | Н              | $\dashv$ | $\dashv$ | $\dashv$ | +        | $\dashv$ | +        | - :::    | $\vdash$ | $\dashv$ | 143        | $\vdash$ | +        | $\dashv$ | -        |          | $\dashv$ | $\dashv$      | $\dashv$ | ᅱ        |
| $\vdash$     | 44       | -  |  | -        | <del> </del> | $\vdash$     | $\vdash$     | ├  | -  | $\vdash$ |        |          | 93       |               | Н              | $\dashv$ | -+       | -+       | +        | +        | +        | - :::    | -        | $\dashv$ | 144        | $\vdash$ |          | -        | -        |          | $\dashv$ | $\dashv$      | $\dashv$ | $\dashv$ |
| <b>-</b>     |          | $\vdash$   | $\vdash$   | Ь.       | _            | $\vdash$     | <del> </del> | $\vdash$   | -  |          |        |          | 95       | -             | Н              | $\dashv$ | -1       | +        | +        | $\dashv$ | -        | - :::    | $\vdash$ | +        | 144        | $\vdash$ | +        | $\dashv$ |          |          |          | $\dashv$      | $\dashv$ | 긕        |
| -            | 45       | $\vdash$   |  |          |              | ⊢            | -            |  | 1—   | $\vdash$ |        |          |          | $\vdash$      | $\vdash$       | $\dashv$ | $\dashv$ | $\dashv$ | +        | -+       | +        |          | $\vdash$ | $\dashv$ |            | $\vdash$ |          | $\dashv$ |          | $\dashv$ | -        | $\dashv$      | -        | $\dashv$ |
| -            | 46       | -  | <del>                                     </del> | $\vdash$ | $\vdash$     | $\vdash$     |              |  | $\vdash$   | $\vdash$ |        |          | 96       | $\vdash$      | $\vdash\vdash$ | $\dashv$ | -+       | -+       | +        | $\dashv$ | +        |          | $\vdash$ | +        | 146<br>147 | Н        | $\dashv$ | $\dashv$ | $\dashv$ |          |          | $\dashv$      | -+       | $\dashv$ |
| -            | 47       | $\vdash$   | -  | -        | <u> </u>     | ⊢            | $\vdash$     | -  | <del> </del>                                     |          |        |          | 97       | <del> -</del> | $\vdash$       | $\dashv$ | -        |          | $\dashv$ | $\dashv$ | $\dashv$ | -[::     | $\vdash$ | +        |            | $\vdash$ | -+       | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$ | $\dashv$ |
| -            | 48       | -  | -  | $\vdash$ | -            | <del> </del> | ⊢            |  | $\vdash$   | -        |        |          | 98<br>99 | $\vdash$      | $\vdash$       | $\dashv$ | +        | $\dashv$ | +        | -+       | +        | - ::     | -        | $\dashv$ | 148<br>149 | $\vdash$ | +        | $\dashv$ | -        | $\dashv$ | $\dashv$ | $\dashv$      | -        | ᅱ        |
|              | 49       | $\vdash$   | -  | -        | <u> </u>     | -            | $\vdash$     | $\vdash$   | $\vdash$   | -        |        |          | 100      | -             | $\vdash$       | $\dashv$ |          |          | $\dashv$ | +        | $\dashv$ | - ::     | -        | $\dashv$ | 150        | $\vdash$ | +        | $\dashv$ | $\dashv$ |          |          | $\dashv$      | $\dashv$ | ᅱ        |
| Ь            | 50       | ட  | ட  |          |              | <u></u>      |              | Ц_   | <u> </u>   |          | :::::: | L        | 1100     |               |                |          |          |          | $\perp$  | _1       |          | :::      | _        | _1       | 150        |          |          |          |          |          |          |               | $\perp$  |          |